

(S1) Table 1. *P*-values and confidence intervals (CI) regarding the multiple insertion torque (IT) values comparisons across the experimental groups.

| Tukey's multiple comparisons test | 95.00% CI of difference | Summary | Adjusted <i>p</i>-value |
|---|--------------------------------|----------------|--------------------------------|
| Sinus-plant:10 PCF vs. Sinus-plant:10 PCF+cortical | -13.71 to -11.61 | **** | <0.0001 |
| Sinus-plant:10 PCF vs. Sinus-plant:20 PCF | -21.54 to -19.44 | **** | <0.0001 |
| Sinus-plant:10 PCF vs. Sinus-plant:20 PCF+cortical | -22.85 to -20.75 | **** | <0.0001 |
| Sinus-plant:10 PCF vs. SLC:10 PCF | -3.770 to -1.670 | **** | <0.0001 |
| Sinus-plant:10 PCF vs. SLC:10 PCF+cortical | -13.82 to -11.72 | **** | <0.0001 |
| Sinus-plant:10 PCF vs. SLC:20 PCF | -23.24 to -21.14 | **** | <0.0001 |
| Sinus-plant:10 PCF vs. SLC:20 PCF+cortical | -27.76 to -25.66 | **** | <0.0001 |
| Sinus-plant:10 PCF+cortical vs. Sinus-plant:20 PCF | -8.880 to -6.780 | **** | <0.0001 |
| Sinus-plant:10 PCF+cortical vs. Sinus-plant:20 PCF+cortical | -10.19 to -8.090 | **** | <0.0001 |
| Sinus-plant:10 PCF+cortical vs. SLC:10 PCF | 8.890 to 10.99 | **** | <0.0001 |
| Sinus-plant:10 PCF+cortical vs. SLC:10 PCF+cortical | -1.160 to 0.9398 | ns | >0.9999 |
| Sinus-plant:10 PCF+cortical vs. SLC:20 PCF | -10.58 to -8.480 | **** | <0.0001 |
| Sinus-plant:10 PCF+cortical vs. SLC:20 PCF+cortical | -15.10 to -13.00 | **** | <0.0001 |
| Sinus-plant:20 PCF vs. Sinus-plant:20 PCF+cortical | -2.360 to -0.2602 | ** | 0.0051 |
| Sinus-plant:20 PCF vs. SLC:10 PCF | 16.72 to 18.82 | **** | <0.0001 |
| Sinus-plant:20 PCF vs. SLC:10 PCF+cortical | 6.670 to 8.770 | **** | <0.0001 |
| Sinus-plant:20 PCF vs. SLC:20 PCF | -2.750 to -0.6502 | **** | <0.0001 |
| Sinus-plant:20 PCF vs. SLC:20 PCF+cortical | -7.270 to -5.170 | **** | <0.0001 |
| Sinus-plant:20 PCF+cortical vs. SLC:10 PCF | 18.03 to 20.13 | **** | <0.0001 |
| Sinus-plant:20 PCF+cortical vs. SLC:10 PCF+cortical | 7.980 to 10.08 | **** | <0.0001 |
| Sinus-plant:20 PCF+cortical vs. SLC:20 PCF | -1.440 to 0.6598 | ns | 0.9405 |
| Sinus-plant:20 PCF+cortical vs. SLC:20 PCF+cortical | -5.960 to -3.860 | **** | <0.0001 |
| SLC:10 PCF vs. SLC:10 PCF+cortical | -11.10 to -9.000 | **** | <0.0001 |
| SLC:10 PCF vs. SLC:20 PCF | -20.52 to -18.42 | **** | <0.0001 |
| SLC:10 PCF vs. SLC:20 PCF+cortical | -25.04 to -22.94 | **** | <0.0001 |
| SLC:10 PCF+cortical vs. SLC:20 PCF | -10.47 to -8.370 | **** | <0.0001 |
| SLC:10 PCF+cortical vs. SLC:20 PCF+cortical | -14.99 to -12.89 | **** | <0.0001 |
| SLC:20 PCF vs. SLC:20 PCF+cortical | -5.570 to -3.470 | **** | <0.0001 |